

CLAIMS

1. Device for energising a number of solenoids (1) of a hook selection device for a weaving machine, comprising an electrical power supply source (V1) connected to the solenoids (1) and a regulating device for regulating the current intensity in the solenoids characterised in that per solenoid the regulating device comprises: a comparator (3) provided for comparing the current intensity in the solenoid (1) to a reference current intensity and a controllable current regulator, such as e.g. a chopper transistor (M1), which is provided for regulating the current intensity in the solenoid (1) in order to reach or approach this reference current intensity, and that the regulating device comprises an electronic control circuit (2a, 2b) that is provided in order with several solenoids to control the current regulator (M1) of each solenoid (1) in order to reduce a deviation between the actual current intensity in that solenoid (1) and the reference current intensity measured by the comparator (3) of that solenoid (1).
2. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 characterised in that the electronic control circuit is provided in order to control the current regulator (M1) in function of a signal originating from the comparator (3).
3. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to claim 1 or 2 characterised in that the current regulator is a chopper transistor.

4. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that the electronic control circuit is provided in order to determine the reference current.
5. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that the electronic control circuit is provided in order to control means for generating a reference current so that in a first phase of the energising of the solenoids a higher reference current is generated than in a subsequent second phase.
6. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that the means for generating a reference current comprise a pulse width modulator.
7. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that parallel to each solenoid (1) a diode (D1) is provided, and that the current intensity is determined by the solenoid by means of a sensor resistance (R1).
8. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that apart from the electronic control circuit (2a, 2b); the regulating device only comprises the following discrete

components per solenoid (1): a diode (D1), a chopper transistor (M1), a sensor resistance (R1) and a comparator (3) whether not provided with a filter.

- 5 9. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that the electronic control circuit is or comprises an integrated circuit.
- 10 10. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that the electronic power supply source (V1) to which the solenoid (1) is connected is a mains transformer with bridge rectifier.
- 15 11. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that the electronic power supply source (V1) is a power supply source with an invariable voltage.
- 20 12. Device for energising a number of solenoids of a hook selection device for a weaving machine, according to any of the preceding claims characterised in that the electronic control circuit (2a, 2b) comprises digital components.
- 25 13. Hook selection device for a weaving machine, comprising a number of solenoids, characterised in that it comprises at least one device for energising solenoids (1) according to any of the preceding claims.
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14. Jacquard machine or weaving machine provided with a number of hooks and a device for selecting hooks, characterised in that it comprises a number of hook selection devices according to claim 13.
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